IN THE CLAIMS:

Please rewrite Claim 44 as set forth below in clean form. Additionally, in accordance with 37 CFR 1.121(c)(1)(ii), amended Claim 44 is set forth in a marked up version in the pages attached to this amendment.

44. (Twice Amended) A method for analyzing an arthropod sample for the presence of one or more analytes associated with an arthropod-carried agent that causes a disease in mammals, said method comprising the steps of:

obtaining an arthropod sample suspected of containing arthropod-borne

agents;

grinding the sample in solution to expose an analyte associated with the arthropod-carried agent such that the sample contains arthropod debris after grinding;

contacting the sample containing arthropod debris with a liquid permeable support and at least one detectable analyte-specific reagent that binds to the analyte to form an analyte-reagent complex;

allowing the liquid phase to move vertically upward through the support by capillary flow or wicking until the analyte or the analyte-specific reagent or the analyte-specific reagent complex binds to at least one capture reagent immobilized on the support; and

detecting the presence of the detectable analyte-specific reagent indicating the presence of the analyte in the sample.

Please add Claims 63-92 as follows:

63. (New) A method for analyzing an arthropod sample for the presence of one or more analytes associated with an arthropod-carried agent that causes a disease in mammals, said method comprising the steps of:

obtaining an arthropod sample suspected of containing arthropod-borne agents;

grinding the sample in solution to expose an analyte associated with the arthropod-carried agent such that the sample contains arthropod debris after grinding;

contacting the sample containing arthropod debris with a dipstick and at least one detectable analyte-specific reagent that binds to the analyte to form an analyte-reagent complex;

allowing the liquid phase to move through the dipstick until the analyte or the analyte-specific reagent or the analyte-specific reagent complex binds to at least one capture reagent immobilized on the dipstick; and

detecting the presence of the detectable analyte-specific reagent indicating the presence of the analyte in the sample.

- (New) The method of claim 63, wherein the detectable analyte-specific reagent further comprises a detectable moiety selected from the group consisting of a colored moiety, a magnetic moiety, a radioactive moiety and an enzyme.
- 65. (New) The method of claim 63, wherein the detectable analyte-specific reagent is deposited on the support prior to contacting the sample.
- 66. (New.) The method of claim 63, wherein the arthropod-carried agent is a togavirus.
 - 67. (New) The method of claim 66, wherein the togavirus is an encephalitis virus.
 - 68. (New) The method of claim 66, wherein the togavirus is a flavivirus.
 - 69 (New) The method of claim 68, wherein the flavivirus is Dengue.
 - 70. (New) The method of claim 68, wherein the flavivirus is an encephalitis virus.
 - (New) The method of claim 70, wherein the encephalitis virus is West Nile 71. Fever

- 72. (New) The method of claim 63, wherein the arthropod is a mosquito.
- 73. (New) The method of claim 63, wherein the sample is homogenized with a grinding solution prior to contact with said support.
- 74. (New) The method of claim 63, wherein the support further comprises a control area having immobilized therein at least one reagent suitable for capturing the detectable analyte-specific reagent.
- (New) The method of claim 63, wherein the analyte-specific reagent is a monoclonal antibody.
- 76. (New) The method of claim 63, wherein the detectable analyte-specific reagent comprises gold-antibody conjugates.
- 77. (New) The method of claim 63, wherein the detectable analyte-specific reagents comprises colored latex-antibody conjugates.
- 78. (New) The method of claim 63, wherein at least three detectable analytespecific reagents for at least three different arthropod-carried agents associated with human malaria are employed and the support comprises at least three capture reagents immobilized onto at least three different detection areas.
- 79. (New) A method for analyzing an arthropod sample for the presence of one or more analytes associated with an arthropod-carried agent that causes a disease in mammals, said method comprising the steps of:
- obtaining an arthropod sample suspected of containing arthropod-borne agents;
- grinding the sample in solution to expose an analyte associated with the arthropod-carried agents such that the sample contains arthropod debris after grinding; contacting the sample containing arthropod debris with a panel assay having capture reagents immobilized onto separate areas and detectable analyte-specific reagents

specific for an analyte associated with each arthropod-borne agent to which the capture reagents are directed;

allowing the liquid phase to move vertically upward through the panel assay by capillary flow or wicking until the analyte or one of the analyte-specific reagents binds to one of the capture reagents; and

detecting the presence of the analyte-specific reagents indicating the presence of the analyte in the sample.

- 80. (New) The method of claim 79, wherein one of the analyte-specific reagents further comprises a detectable moiety selected from the group consisting of a colored moiety, a magnetic moiety, a radioactive moiety and an enzyme.
- 81. (New) The method of claim 79, wherein one of the detectable analyte-specific reagents is deposited on the support prior to contacting the sample.
- (New) The method of claim 79, wherein one of the arthropod-carried agents is a togavirus.
- 83. (New) The
- (New) The method of claim 82, wherein the togavirus is an encephalitis virus.
 - 84. (New) The method of claim 82, wherein the togavirus is a flavivirus.
 - 85. (New) The method of claim 84, wherein the flavivirus is Dengue.
 - 86. (New) The method of claim 84, wherein the flavivirus is an encephalitis virus.
 - 87. (New) The method of claim 86, wherein the encephalitis virus is West Nile Fever.
 - 88. (New) The method of claim 79, wherein the arthropod is a mosquito.

- 89. (New) The method of claim 79, wherein the sample is homogenized with a grinding solution prior to contact with said panel assay.
- 90. (New) The method of claim 79, wherein one of the analyte-specific reagents is a monoclonal antibody.
- (New) The method of claim 79, wherein one of the detectable analyte-specific reagents comprises gold-antibody conjugates.

analyte-specific reagents comprises colored latex-antibody conjugates.